# Ow Yes!

- Gravity 14.3 BLG
- ABV **5.9** %
- IBU 37
- SRM **26.3**
- Style Foreign Extra Stout

### **Batch size**

- Expected quantity of finished beer 23 liter(s)
- Trub loss 5 %
- Size with trub loss 24.1 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 27.8 liter(s)

# **Mash information**

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 19 liter(s)
- Total mash volume 25.3 liter(s)

### **Steps**

- Temp **50 C**, Time **20 min** Temp **61 C**, Time **30 min** Temp **70 C**, Time **30 min**
- Temp **78 C**, Time **15 min**

# Mash step by step

- Heat up 19 liter(s) of strike water to 55C
- Add grains
- Keep mash 20 min at 50C
- Keep mash 30 min at 61C
- Keep mash 30 min at 70C
- Keep mash 15 min at 78C
- Sparge using 15.1 liter(s) of 76C water or to achieve 27.8 liter(s) of wort

## **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Simpsons - Maris Otter	5 kg (79.1%)	81 %	6
Grain	Płatki owsiane	0.7 kg <i>(11.1%)</i>	85 %	3
Grain	Roasted Barley	0.42 kg <i>(6.6%)</i>	55 %	591
Grain	Strzegom Czekoladowy ciemny	0.2 kg <i>(3.2%)</i>	68 %	1200

# Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade	20 g	60 min	6 %
Boil	Cascade	20 g	45 min	6 %
Boil	East Kent Goldings	25 g	30 min	5.1 %
Boil	East Kent Goldings	25 g	15 min	5.1 %
Aroma (end of boil)	Cascade	10 g	0 min	6 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
Name	libbe	1 01111	Aillouit	Laboratory

				·
Cafala LIC OF	۸۱۵	Dry	11 ~	Formontic
Satale US-U5	Ale	עזט ן	1119	rennenus